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 aacccccctg cctggccctt ttcagtggtc agtgtccagt gctgggtacg gtgtgttccc 3272

accacactgg gtccacctgc tgtgccactg gacttagtgc tgtggttgta atgtctttta 3332
ctattgtatt aatgactagt ctgttacatt agactggggg tgggggtgcaa gggctctgctg 3392
gtttgtgagg ctttttgatt gggggggtgg tttgtttttt ttttttaaag ctattggagt 3452
tct 3455

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<212> PRT
<213> Rat

<400> 4
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Thr Ala Ala Glu Glu Glu Arg Gln Ala Arg Glu Lys Met Leu Glu Ala
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Arg Arg Gly Asp Gly Ala Asp Pro Glu Gly Glu Gly Val Thr Leu Gln
35 40 45
Arg Asn Ile Thr Leu Ile Asn Gly Val Ala Ile Ile Val Gly Thr Ile
50 55 60
Ile Gly Ser Gly Ile Phe Val Thr Pro Thr Gly Val Leu Lys Glu Ala
65 70 75 80
Gly Ser Pro Gly Leu Ser Leu Val Val Trp Ala Val Cys Gly Val Phe
85 90 95
Ser Ile Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Thr Thr Ile Ser
100 105 110
Lys Ser Gly Gly Asp Tyr Ala Tyr Met Leu Glu Val Tyr Gly Ser Leu
115 120 125
Pro Ala Phe Leu Lys Leu Trp Ile Glu Leu Leu Ile Ile Arg Pro Ser
130 135 140
Ser Gln Tyr Ile Val Ala Leu Val Phe Ala Thr Tyr Leu Leu Lys Pro
145 150 155 160
Val Phe Pro Thr Cys Pro Val Pro Glu Glu Ala Ala Lys Leu Val Ala
165 170 175
Cys Leu Cys Val Leu Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys
180 185 190
Ala Ala Thr Arg Val Gln Asp Ala Phe Ala Ala Ala Lys Leu Leu Ala
195 200 205
Leu Ala Leu Ile Ile Leu Leu Gly Phe Ile Gln Met Gly Lys Asp Ile
210 215 220

Gly	Gln	Gly	Asp	Ala	Ser	Asn	Leu	His	Gln	Lys	Leu	Ser	Phe	Glu	Gly	225	230	235	240
Thr	Asn	Leu	Asp	Val	Gly	Asn	Ile	Val	Leu	Ala	Leu	Tyr	Ser	Gly	Leu	245	250	255	
Phe	Ala	Tyr	Gly	Gly	Trp	Asn	Tyr	Leu	Asn	Phe	Val	Thr	Glu	Glu	Met	260	265	270	
Ile	Asn	Pro	Tyr	Arg	Asn	Leu	Pro	Leu	Ala	Ile	Ile	Ile	Ser	Leu	Pro	275	280	285	
Ile	Val	Thr	Leu	Val	Tyr	Val	Leu	Thr	Asn	Leu	Ala	Tyr	Phe	Thr	Thr	290	295	300	
Leu	Ser	Thr	Asn	Gln	Met	Leu	Thr	Ser	Glu	Ala	Val	Ala	Val	Asp	Phe	305	310	315	320
Gly	Asn	Tyr	His	Leu	Gly	Val	Met	Ser	Trp	Ile	Ile	Pro	Val	Phe	Val	325	330	335	
Gly	Leu	Ser	Cys	Phe	Gly	Ser	Val	Asn	Gly	Ser	Leu	Phe	Thr	Ser	Ser	340	345	350	
Arg	Leu	Phe	Phe	Val	Gly	Ser	Arg	Glu	Gly	His	Leu	Pro	Ser	Ile	Leu	355	360	365	
Ser	Met	Ile	His	Pro	Gln	Leu	Leu	Thr	Pro	Val	Pro	Ser	Leu	Val	Phe	370	375	380	
Thr	Cys	Val	Met	Thr	Leu	Met	Tyr	Ala	Phe	Ser	Arg	Asp	Ile	Phe	Ser	385	390	395	400
Ile	Ile	Asn	Phe	Phe	Ser	Phe	Phe	Asn	Trp	Leu	Cys	Val	Ala	Leu	Ala	405	410	415	
Ile	Ile	Gly	Met	Met	Trp	Leu	Arg	Phe	Lys	Lys	Pro	Glu	Leu	Glu	Arg	420	425	430	
Pro	Ile	Lys	Val	Asn	Leu	Ala	Leu	Pro	Val	Phe	Phe	Ile	Leu	Ala	Cys	435	440	445	
Leu	Phe	Leu	Ile	Ala	Val	Ser	Phe	Trp	Lys	Thr	Pro	Leu	Glu	Cys	Gly	450	455	460	
Ile	Gly	Phe	Ala	Ile	Ile	Leu	Ser	Gly	Leu	Pro	Val	Tyr	Phe	Phe	Gly	465	470	475	480
Val	Trp	Trp	Lys	Asn	Lys	Pro	Lys	Trp	Ile	Leu	Gln	Val	Ile	Phe	Ser	485	490	495	
Val	Thr	Val	Leu	Cys	Gln	Lys	Leu	Met	Gln	Val	Val	Pro	Gln	Glu	Thr	500	505	510	

<210> 5

<211> 1863

<212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(109)

<220>
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 <222> (110)..(1699)

<220>
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 <222> (1700)..(1863)

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 gccaccatct gaccgcaagc tgcgtcgtgt cgccggttct gcaggcacc atg agc cag 118
 Met Ser Gln
 1
 gac acc gag gtg gat atg aag gag gtg gag ctg aat gag tta gag ccc 166
 Asp Thr Glu Val Asp Met Lys Glu Val Glu Leu Asn Glu Leu Glu Pro
 5 10 15
 gag aag cag ccg atg aac gcg gcg tct ggg gcg gcc atg tcc ctg gcg 214
 Glu Lys Gln Pro Met Asn Ala Ala Ser Gly Ala Ala Met Ser Leu Ala
 20 25 30 35
 gga gcc gag aag aat ggt ctg gtg aag atc aag gtg gcg gaa gac gag 262
 Gly Ala Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala Glu Asp Glu
 40 45 50
 gcg gag gcg gca gcc gcg gct aag ttc acg ggc ctg tcc aag gag gag 310
 Ala Glu Ala Ala Ala Ala Ala Lys Phe Thr Gly Leu Ser Lys Glu Glu
 55 60 65
 ctg ctg aag gtg gca ggc agc ccc ggc tgg gta cgc acc cgc tgg gca 358
 Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr Arg Trp Ala
 70 75 80
 ctg ctg ctg ctc ttc tgg ctc ggc tgg ctc ggc atg ctt gct ggt gcc 406
 Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu Ala Gly Ala
 85 90 95
 gtg gtc ata atc gtg cga gcg ccg cgt tgt cgc gag cta ccg gcg cag 454
 Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu Pro Ala Gln
 100 105 110 115
 aag tgg tgg cac acg ggc gcc ctc tac cgc atc ggc gac ctt cag gcc 502
 Lys Trp Trp His Thr Gly Ala Leu Tyr Arg Ile Gly Asp Leu Gln Ala
 120 125 130
 ttc cag ggc cac ggc gcg ggc aac ctg gcg ggt ctg aag ggg cgt ctc 550
 Phe Gln Gly His Gly Ala Gly Asn Leu Ala Gly Leu Lys Gly Arg Leu
 135 140 145

gat tac ctg agc tct ctg aag gtg aag ggc ctt gtg ctg ggt cca att	598
Asp Tyr Leu Ser Ser Leu Lys Val Lys Gly Leu Val Leu Gly Pro Ile	
150 155 160	
cac aag aac cag aag gat gat gtc gct cag act gac ttg ctg cag atc	646
His Lys Asn Gln Lys Asp Asp Val Ala Gln Thr Asp Leu Leu Gln Ile	
165 170 175	
gac ccc aat ttt ggc tcc aag gaa gat ttt gac agt ctc ttg caa tcg	694
Asp Pro Asn Phe Gly Ser Lys Glu Asp Phe Asp Ser Leu Leu Gln Ser	
180 185 190 195	
gct aaa aaa aag agc atc cgt gtc att ctg gac ctt act ccc aac tac	742
Ala Lys Lys Lys Ser Ile Arg Val Ile Leu Asp Leu Thr Pro Asn Tyr	
200 205 210	
cgg ggt gag aac tcg tgg ttc tcc act cag gtt gac act gtg gcc acc	790
Arg Gly Glu Asn Ser Trp Phe Ser Thr Gln Val Asp Thr Val Ala Thr	
215 220 225	
aag gtg aag gat gct ctg gag ttt tgg ctg caa gct ggc gtg gat ggg	838
Lys Val Lys Asp Ala Leu Glu Phe Trp Leu Gln Ala Gly Val Asp Gly	
230 235 240	
ttc cag gtt cgg gac ata gag aat ctg aag gat gca tcc tca ttc ttg	886
Phe Gln Val Arg Asp Ile Glu Asn Leu Lys Asp Ala Ser Ser Phe Leu	
245 250 255	
gct gag tgg caa aat atc acc aag ggc ttc agt gaa gac agg ctc ttg	934
Ala Glu Trp Gln Asn Ile Thr Lys Gly Phe Ser Glu Asp Arg Leu Leu	
260 265 270 275	
att gcg ggg act aac tcc tcc gac ctt cag cag atc ctg agc cta ctc	982
Ile Ala Gly Thr Asn Ser Ser Asp Leu Gln Gln Ile Leu Ser Leu Leu	
280 285 290	
gaa tcc aac aaa gac ttg ctg ttg act agc tca tac ctg tct gat tct	1030
Glu Ser Asn Lys Asp Leu Leu Leu Thr Ser Ser Tyr Leu Ser Asp Ser	
295 300 305	
ggg tct act ggg gag cat aca aaa tcc cta gtc aca cag tat ttg aat	1078
Gly Ser Thr Gly Glu His Thr Lys Ser Leu Val Thr Gln Tyr Leu Asn	
310 315 320	
gcc act ggc aat cgc tgg tgc agc tgg agt ttg tct cag gca agg ctc	1126
Ala Thr Gly Asn Arg Trp Cys Ser Trp Ser Leu Ser Gln Ala Arg Leu	
325 330 335	
ctg act tcc ttc ttg ccg gct caa ctt ctc cga ctc tac cag ctg atg	1174
Leu Thr Ser Phe Leu Pro Ala Gln Leu Leu Arg Leu Tyr Gln Leu Met	
340 345 350 355	
ctc ttc acc ctg cca ggg acc cct gtt ttc agc tac ggg gat gag att	1222
Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly Asp Glu Ile	
360 365 370	

ggc ctg gat gca gct gcc ctt cct gga cag cct atg gag gct cca gtc 1270
 Gly Leu Asp Ala Ala Ala Leu Pro Gly Gln Pro Met Glu Ala Pro Val
 375 380 385

atg ctg tgg gat gag tcc agc ttc cct gac atc cca ggg gct gta agt 1318
 Met Leu Trp Asp Glu Ser Ser Phe Pro Asp Ile Pro Gly Ala Val Ser
 390 395 400

gcc aac atg act gtg aag ggc cag agt gaa gac cct ggc tcc ctc ctt 1366
 Ala Asn Met Thr Val Lys Gly Gln Ser Glu Asp Pro Gly Ser Leu Leu
 405 410 415

tcc ttg ttc cgg cgg ctg agt gac cag cgg agt aag gag cgc tcc cta 1414
 Ser Leu Phe Arg Arg Leu Ser Asp Gln Arg Ser Lys Glu Arg Ser Leu
 420 425 430 435

ctg cat ggg gac ttc cac gcg ttc tcc gct ggg cct gga ctc ttc tcc 1462
 Leu His Gly Asp Phe His Ala Phe Ser Ala Gly Pro Gly Leu Phe Ser
 440 445 450

tat atc cgc cac tgg gac cag aat gag cgt ttt ctg gta gtg ctt aac 1510
 Tyr Ile Arg His Trp Asp Gln Asn Glu Arg Phe Leu Val Val Leu Asn
 455 460 465

ttt ggg gat gtg ggc ctc tcg gct gga ctg cag gcc tcc gac ctg cct 1558
 Phe Gly Asp Val Gly Leu Ser Ala Gly Leu Gln Ala Ser Asp Leu Pro
 470 475 480

gcc agc gcc agc ctc cca gcc aag gct gac ctc ctg ctc agc acc cag 1606
 Ala Ser Ala Ser Leu Pro Ala Lys Ala Asp Leu Leu Leu Ser Thr Gln
 485 490 495

cca ggc cgt gag gag ggc tcc cct ctt gag ctg gaa cgc ctg aaa ctg 1654
 Pro Gly Arg Glu Glu Gly Ser Pro Leu Glu Leu Glu Arg Leu Lys Leu
 500 505 510 515

gag cct cac gaa ggg ctg ctg ctc cgc ttc ccc tac gcg gcc tga 1699
 Glu Pro His Glu Gly Leu Leu Leu Arg Phe Pro Tyr Ala Ala
 520 525 530

cttcagcctg acatggaccc actacccttc tcctttcctt cccaggccct ttggttctga 1759

tttttctctt ttttaaaaac aaacaaacaa actgttgcag attatgagtg aacccccaaa 1819

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 taggggtgtt tctgccttca aataaaagtc acccctgcat ggtg 1863

<210> 6

<211> 529

<212> PRT

<213> Homo sapiens

<400> 6

Met Ser Gln Asp Thr Glu Val Asp Met Lys Glu Val Glu Leu Asn Glu
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Leu Glu Pro Glu Lys Gln Pro Met Asn Ala Ala Ser Gly Ala Ala Met
 20 25 30

Ser Leu Ala Gly Ala Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala
 35 40 45

Glu Asp Glu Ala Glu Ala Ala Ala Ala Lys Phe Thr Gly Leu Ser
 50 55 60

Lys Glu Glu Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr
 65 70 75 80

Arg Trp Ala Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu
 85 90 95

Ala Gly Ala Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu
 100 105 110

Pro Ala Gln Lys Trp Trp His Thr Gly Ala Leu Tyr Arg Ile Gly Asp
 115 120 125

Leu Gln Ala Phe Gln Gly His Gly Ala Gly Asn Leu Ala Gly Leu Lys
 130 135 140

Gly Arg Leu Asp Tyr Leu Ser Ser Leu Lys Val Lys Gly Leu Val Leu
 145 150 155 160

Gly Pro Ile His Lys Asn Gln Lys Asp Asp Val Ala Gln Thr Asp Leu
 165 170 175

Leu Gln Ile Asp Pro Asn Phe Gly Ser Lys Glu Asp Phe Asp Ser Leu
 180 185 190

Leu Gln Ser Ala Lys Lys Lys Ser Ile Arg Val Ile Leu Asp Leu Thr
 195 200 205

Pro Asn Tyr Arg Gly Glu Asn Ser Trp Phe Ser Thr Gln Val Asp Thr
 210 215 220

Val Ala Thr Lys Val Lys Asp Ala Leu Glu Phe Trp Leu Gln Ala Gly
 225 230 235 240

Val Asp Gly Phe Gln Val Arg Asp Ile Glu Asn Leu Lys Asp Ala Ser
 245 250 255

Ser Phe Leu Ala Glu Trp Gln Asn Ile Thr Lys Gly Phe Ser Glu Asp
 260 265 270

Arg Leu Leu Ile Ala Gly Thr Asn Ser Ser Asp Leu Gln Gln Ile Leu
 275 280 285

Ser Leu Leu Glu Ser Asn Lys Asp Leu Leu Leu Thr Ser Ser Tyr Leu
 290 295 300

Ser Asp Ser Gly Ser Thr Gly Glu His Thr Lys Ser Leu Val Thr Gln
 305 310 315 320

Tyr Leu Asn Ala Thr Gly Asn Arg Trp Cys Ser Trp Ser Leu Ser Gln
 325 330 335
 Ala Arg Leu Leu Thr Ser Phe Leu Pro Ala Gln Leu Leu Arg Leu Tyr
 340 345 350
 Gln Leu Met Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly
 355 360 365
 Asp Glu Ile Gly Leu Asp Ala Ala Ala Leu Pro Gly Gln Pro Met Glu
 370 375 380
 Ala Pro Val Met Leu Trp Asp Glu Ser Ser Phe Pro Asp Ile Pro Gly
 385 390 395 400
 Ala Val Ser Ala Asn Met Thr Val Lys Gly Gln Ser Glu Asp Pro Gly
 405 410 415
 Ser Leu Leu Ser Leu Phe Arg Arg Leu Ser Asp Gln Arg Ser Lys Glu
 420 425 430
 Arg Ser Leu Leu His Gly Asp Phe His Ala Phe Ser Ala Gly Pro Gly
 435 440 445
 Leu Phe Ser Tyr Ile Arg His Trp Asp Gln Asn Glu Arg Phe Leu Val
 450 455 460
 Val Leu Asn Phe Gly Asp Val Gly Leu Ser Ala Gly Leu Gln Ala Ser
 465 470 475 480
 Asp Leu Pro Ala Ser Ala Ser Leu Pro Ala Lys Ala Asp Leu Leu Leu
 485 490 495
 Ser Thr Gln Pro Gly Arg Glu Glu Gly Ser Pro Leu Glu Leu Glu Arg
 500 505 510
 Leu Lys Leu Glu Pro His Glu Gly Leu Leu Leu Arg Phe Pro Tyr Ala
 515 520 525

Ala

<210> 7
 <211> 1797
 <212> DNA
 <213> Rat

<220>
 <221> 5'UTR
 <222> (1)..(19)

<220>
 <221> CDS
 <222> (20)..(1603)

<220>
 <221> 3'UTR

<222> (1604)..(1797)

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gtg gag ctg aac gag ctg gaa ccg gag aag cag cct atg aat gca gcg	100
Val Glu Leu Asn Glu Leu Glu Pro Glu Lys Gln Pro Met Asn Ala Ala	
15 20 25	
gac ggg gcg gca gcc ggg gag aag aac ggt ctg gtg aag att aag gtg	148
Asp Gly Ala Ala Ala Gly Glu Lys Asn Gly Leu Val Lys Ile Lys Val	
30 35 40	
gcc gaa gac gag gcg gaa gcc ggg gtc aag ttc aca ggc tta tcc aag	196
Ala Glu Asp Glu Ala Glu Ala Gly Val Lys Phe Thr Gly Leu Ser Lys	
45 50 55	
gag gag cta ttg aag gta gct ggc agc ccg ggc tgg gtg cgc acc cgc	244
Glu Glu Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr Arg	
60 65 70 75	
tgg gcg ctg ctg ctg ctc ttc tgg ctc ggt tgg ctg ggt atg ctg gcg	292
Trp Ala Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu Ala	
80 85 90	
ggc gcc gtg gtt atc atc gtt cgg gcg cca cgc tgc cgt gag ctg ccg	340
Gly Ala Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu Pro	
95 100 105	
gta cag aga tgg tgg cac aag ggc gcc ctc tac cgc atc ggc gac ctt	388
Val Gln Arg Trp Trp His Lys Gly Ala Leu Tyr Arg Ile Gly Asp Leu	
110 115 120	
cag gcc ttc gta ggc ccg gaa gcg aga ggc ata gct ggt ctg aag aac	436
Gln Ala Phe Val Gly Pro Glu Ala Arg Gly Ile Ala Gly Leu Lys Asn	
125 130 135	
cat ctg gag tac ttg agc acc ctg aag gtg aag ggc cta gtt ttg ggc	484
His Leu Glu Tyr Leu Ser Thr Leu Lys Val Lys Gly Leu Val Leu Gly	
140 145 150 155	
cca att cac aag aac cag aag gat gaa gtc aat gaa acc gac ttg aaa	532
Pro Ile His Lys Asn Gln Lys Asp Glu Val Asn Glu Thr Asp Leu Lys	
160 165 170	
cag att gat ccc gat tta ggc tcc cag gaa gat ttt aaa gac ctt cta	580
Gln Ile Asp Pro Asp Leu Gly Ser Gln Glu Asp Phe Lys Asp Leu Leu	
175 180 185	
caa agt gcc aag aaa aag agc att cac atc att ttg gac ctc act ccc	628
Gln Ser Ala Lys Lys Lys Ser Ile His Ile Ile Leu Asp Leu Thr Pro	
190 195 200	

aac tat aag ggc cag aat gca tgg ttc ctc cct cct cag gct gac att	676
Asn Tyr Lys Gly Gln Asn Ala Trp Phe Leu Pro Pro Gln Ala Asp Ile	
205 210 215	
gta gcc acc aaa atg aag gag gct ctg agt tct tgg ttg cag gac ggt	724
Val Ala Thr Lys Met Lys Glu Ala Leu Ser Ser Trp Leu Gln Asp Gly	
220 225 230 235	
gtg gat ggg ttc caa gtt cgg gat gtg gga aag ctg gcg aat gca tcc	772
Val Asp Gly Phe Gln Val Arg Asp Val Gly Lys Leu Ala Asn Ala Ser	
240 245 250	
ttg tac ttg gct gag tgg cag aat atc acc aag aac ttc agt gag gac	820
Leu Tyr Leu Ala Glu Trp Gln Asn Ile Thr Lys Asn Phe Ser Glu Asp	
255 260 265	
agg ctt ttg att gca ggg acc gcg tcc tct gac ctg caa caa att gtc	868
Arg Leu Leu Ile Ala Gly Thr Ala Ser Ser Asp Leu Gln Gln Ile Val	
270 275 280	
aac ata ctt gaa tcc acc agc gat ctg ctg ctg acc agc tca tac ctg	916
Asn Ile Leu Glu Ser Thr Ser Asp Leu Leu Leu Thr Ser Ser Tyr Leu	
285 290 295	
tca cag ccc gtt ttc act ggg gag cat gca gaa ctc cta gtg att aag	964
Ser Gln Pro Val Phe Thr Gly Glu His Ala Glu Leu Leu Val Ile Lys	
300 305 310 315	
tat ttg aat gcc act ggc agc cgc tgg tgc agc tgg agt gtg tcg cag	1012
Tyr Leu Asn Ala Thr Gly Ser Arg Trp Cys Ser Trp Ser Val Ser Gln	
320 325 330	
gca gga ctc ctg aca tcc ttt ata ccg gct cag ttt ctc cga ctc tac	1060
Ala Gly Leu Leu Thr Ser Phe Ile Pro Ala Gln Phe Leu Arg Leu Tyr	
335 340 345	
cag ctg ctg ctc ttc act ctg cca gga act cct gtt ttc agc tat ggg	1108
Gln Leu Leu Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly	
350 355 360	
gat gag ctt ggc ctt cag gca gtt gcc ctt cct gga cag cct atg gag	1156
Asp Glu Leu Gly Leu Gln Ala Val Ala Leu Pro Gly Gln Pro Met Glu	
365 370 375	
gct cca ttc atg ctg tgg aat gag tct agc aac tcc caa acc tca agt	1204
Ala Pro Phe Met Leu Trp Asn Glu Ser Ser Asn Ser Gln Thr Ser Ser	
380 385 390 395	
cct gta agc ctc aac atg aca gtg aag ggc caa aat gaa gac ccc ggc	1252
Pro Val Ser Leu Asn Met Thr Val Lys Gly Gln Asn Glu Asp Pro Gly	
400 405 410	
tcc ctc ctc acc cag ttc cgg cga ctg agt gac ctc cgt ggt aag gag	1300
Ser Leu Leu Thr Gln Phe Arg Arg Leu Ser Asp Leu Arg Gly Lys Glu	
415 420 425	

cgc tct ctg tta cac ggt gac ttt gat gca ctg tct tcc tca tct ggg	1348
Arg Ser Leu Leu His Gly Asp Phe Asp Ala Leu Ser Ser Ser Ser Gly	
430 435 440	
ctc ttc tcc tac gtc cgc cac tgg gac cag aat gag cgt tac ctg gtg	1396
Leu Phe Ser Tyr Val Arg His Trp Asp Gln Asn Glu Arg Tyr Leu Val	
445 450 455	
gtg ctc aac ttc cag gat gtg ggc ctg tca gcc agg gta gga gcc tcc	1444
Val Leu Asn Phe Gln Asp Val Gly Leu Ser Ala Arg Val Gly Ala Ser	
460 465 470 475	
aac ctc cct gct ggc ata agc ctg cca gcc agt gct aac ctt ttg ctt	1492
Asn Leu Pro Ala Gly Ile Ser Leu Pro Ala Ser Ala Asn Leu Leu Leu	
480 485 490	
agt act gac agc acc cgg cta agc cgt gag gag ggc acc tcc ctg agc	1540
Ser Thr Asp Ser Thr Arg Leu Ser Arg Glu Glu Gly Thr Ser Leu Ser	
495 500 505	
ctg gaa aac ctg agc ctg aat cct tat gag ggc ttg ttg tta cag ttc	1588
Leu Glu Asn Leu Ser Leu Asn Pro Tyr Glu Gly Leu Leu Leu Gln Phe	
510 515 520	
cct ttt gtg gcc tga tccctctaca cagaacctgc cacccttctt tcctctctca	1643
Pro Phe Val Ala	
525	
ggccttttgga attctggtct ttctctcctt attttgtttt tgtttttaaa cttttgcaga	1703
ttacatatga attcttacac tggggggtttt tgttttcaaa ataaaaaaaa tcacccttaa	1763
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa	1797

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 <211> 527
 <212> PRT
 <213> Rat

<400> 8
Met Ser Gln Asp Thr Glu Val Asp Met Lys Asp Val Glu Leu Asn Glu
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Leu Glu Pro Glu Lys Gln Pro Met Asn Ala Ala Asp Gly Ala Ala Ala
20 25 30
Gly Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala Glu Asp Glu Ala
35 40 45
Glu Ala Gly Val Lys Phe Thr Gly Leu Ser Lys Glu Glu Leu Leu Lys
50 55 60
Val Ala Gly Ser Pro Gly Trp Val Arg Thr Arg Trp Ala Leu Leu Leu
65 70 75 80

Leu	Phe	Trp	Leu	Gly	Trp	Leu	Gly	Met	Leu	Ala	Gly	Ala	Val	Val	Ile	85	90	95
Ile	Val	Arg	Ala	Pro	Arg	Cys	Arg	Glu	Leu	Pro	Val	Gln	Arg	Trp	Trp	100	105	110
His	Lys	Gly	Ala	Leu	Tyr	Arg	Ile	Gly	Asp	Leu	Gln	Ala	Phe	Val	Gly	115	120	125
Pro	Glu	Ala	Arg	Gly	Ile	Ala	Gly	Leu	Lys	Asn	His	Leu	Glu	Tyr	Leu	130	135	140
Ser	Thr	Leu	Lys	Val	Lys	Gly	Leu	Val	Leu	Gly	Pro	Ile	His	Lys	Asn	145	150	155
Gln	Lys	Asp	Glu	Val	Asn	Glu	Thr	Asp	Leu	Lys	Gln	Ile	Asp	Pro	Asp	165	170	175
Leu	Gly	Ser	Gln	Glu	Asp	Phe	Lys	Asp	Leu	Leu	Gln	Ser	Ala	Lys	Lys	180	185	190
Lys	Ser	Ile	His	Ile	Ile	Leu	Asp	Leu	Thr	Pro	Asn	Tyr	Lys	Gly	Gln	195	200	205
Asn	Ala	Trp	Phe	Leu	Pro	Pro	Gln	Ala	Asp	Ile	Val	Ala	Thr	Lys	Met	210	215	220
Lys	Glu	Ala	Leu	Ser	Ser	Trp	Leu	Gln	Asp	Gly	Val	Asp	Gly	Phe	Gln	225	230	235
Val	Arg	Asp	Val	Gly	Lys	Leu	Ala	Asn	Ala	Ser	Leu	Tyr	Leu	Ala	Glu	245	250	255
Trp	Gln	Asn	Ile	Thr	Lys	Asn	Phe	Ser	Glu	Asp	Arg	Leu	Leu	Ile	Ala	260	265	270
Gly	Thr	Ala	Ser	Ser	Asp	Leu	Gln	Gln	Ile	Val	Asn	Ile	Leu	Glu	Ser	275	280	285
Thr	Ser	Asp	Leu	Leu	Leu	Thr	Ser	Ser	Tyr	Leu	Ser	Gln	Pro	Val	Phe	290	295	300
Thr	Gly	Glu	His	Ala	Glu	Leu	Leu	Val	Ile	Lys	Tyr	Leu	Asn	Ala	Thr	305	310	315
Gly	Ser	Arg	Trp	Cys	Ser	Trp	Ser	Val	Ser	Gln	Ala	Gly	Leu	Leu	Thr	325	330	335
Ser	Phe	Ile	Pro	Ala	Gln	Phe	Leu	Arg	Leu	Tyr	Gln	Leu	Leu	Leu	Phe	340	345	350
Thr	Leu	Pro	Gly	Thr	Pro	Val	Phe	Ser	Tyr	Gly	Asp	Glu	Leu	Gly	Leu	355	360	365
Gln	Ala	Val	Ala	Leu	Pro	Gly	Gln	Pro	Met	Glu	Ala	Pro	Phe	Met	Leu	370	375	380

Trp Asn Glu Ser Ser Asn Ser Gln Thr Ser Ser Pro Val Ser Leu Asn
 385 390 395 400
 Met Thr Val Lys Gly Gln Asn Glu Asp Pro Gly Ser Leu Leu Thr Gln
 405 410 415
 Phe Arg Arg Leu Ser Asp Leu Arg Gly Lys Glu Arg Ser Leu Leu His
 420 425 430
 Gly Asp Phe Asp Ala Leu Ser Ser Ser Gly Leu Phe Ser Tyr Val
 435 440 445
 Arg His Trp Asp Gln Asn Glu Arg Tyr Leu Val Val Leu Asn Phe Gln
 450 455 460
 Asp Val Gly Leu Ser Ala Arg Val Gly Ala Ser Asn Leu Pro Ala Gly
 465 470 475 480
 Ile Ser Leu Pro Ala Ser Ala Asn Leu Leu Leu Ser Thr Asp Ser Thr
 485 490 495
 Arg Leu Ser Arg Glu Glu Gly Thr Ser Leu Ser Leu Glu Asn Leu Ser
 500 505 510
 Leu Asn Pro Tyr Glu Gly Leu Leu Leu Gln Phe Pro Phe Val Ala
 515 520 525

<210> 9
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Artificially
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<220>
 <221> primer_bind
 <222> (1)..(22)

<400> 9
 cgaagtggac atgaaagatg tg

22

<210> 10
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(22)

<400> 10
aaactaggcc cttcaccttc ag 22

<210> 11
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
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synthesized primer sequence

<220>
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<222> (1)..(24)

<400> 11
actgctgctg ctcttctggc tcgg 24

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(24)

<400> 12
gtggatgggt tccaggttcg ggac 24

<210> 13
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<212> DNA
<213> Artificial Sequence

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synthesized primer sequence

<220>
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<222> (1)..(24)

<400> 13
tgctgtggga tgagtccagc ttcc 24

<210> 14
<211> 24

<212> DNA
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 <220>
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 <222> (1)..(24)

 <400> 14
 gcaggaggtc agccttggtt ggca 24

 <210> 15
 <211> 24
 <212> DNA
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 <220>
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 <222> (1)..(24)

 <400> 15
 cttgcctgag acaaactcca gctg 24

 <210> 16
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (1)..(24)

 <400> 16
 actgtcaaaa tcttccttgg agcc 24

 <210> 17
 <211> 24
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<220>
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 <400> 17
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<210> 18
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 <400> 18
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<210> 19
 <211> 17
 <212> DNA
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 <222> (1)..(17)

 <400> 19
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<210> 20
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 <212> DNA
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 <400> 20
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<400> 21
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22

<210> 22
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<212> DNA
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<220>
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synthesized primer sequence

<220>
<221> primer_bind
<222> (1)..(21)

<400> 22
gtgggtccc gggaaggcca c

21

<210> 23
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
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synthesized primer sequence

<220>
<221> primer_bind
<222> (1)..(22)

<400> 23
cttgtttttc caccagaccc cg

22

<210> 24
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
synthesized primer sequence

<220>

<221> primer_bind

<222> (1)..(22)

<400> 24

tgagggatga gattcgtacc ag

22

<210> 25

<211> 23

<212> DNA

<213> Artificial Sequence

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synthesized primer sequence

<220>

<221> primer_bind

<222> (1)..(23)

<400> 25

cctgggagga atcaccacc ttg

23

<210> 26

<211> 1524

<212> RNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1524)

<400> 26

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Met	Ala	Gly	Ala	Gly	Pro	Lys	Arg	Arg	Ala	Leu	Ala	Ala	Pro	Ala	Ala	
1				5					10					15		

gag	gag	aag	gaa	gag	gcg	cgg	gag	aag	aug	cug	gcc	gcc	aag	agc	gcg	96
Glu	Glu	Lys	Glu	Glu	Ala	Arg	Glu	Lys	Met	Leu	Ala	Ala	Lys	Ser	Ala	
			20					25						30		

gac	ggc	ucg	gcg	ccg	gca	ggc	gag	ggc	gag	ggc	gug	acc	cug	cag	cgg	144
Asp	Gly	Ser	Ala	Pro	Ala	Gly	Glu	Gly	Glu	Gly	Val	Thr	Leu	Gln	Arg	
		35				40					45					

aac	auc	acg	cug	cuc	aac	ggc	gug	gcc	auc	auc	gug	ggg	acc	auu	auc	192
Asn	Ile	Thr	Leu	Leu	Asn	Gly	Val	Ala	Ile	Ile	Val	Gly	Thr	Ile	Ile	
	50					55					60					

ggc	ucg	ggc	auc	uuc	gug	acg	ccc	acg	ggc	gug	cuc	aag	gag	gca	ggc	240
Gly	Ser	Gly	Ile	Phe	Val	Thr	Pro	Thr	Gly	Val	Leu	Lys	Glu	Ala	Gly	
65					70					75					80	

ucg ccg ggg cug gcg cug gug gug ugg gcc gcg ugc ggc guc uuc ucc	288
Ser Pro Gly Leu Ala Leu Val Val Trp Ala Ala Cys Gly Val Phe Ser	
85 90 95	
auc gug ggc gcg cuc ugc uac gcg gag cuc ggc acc acc auc ucc aaa	336
Ile Val Gly Ala Leu Cys Tyr Ala Glu Leu Gly Thr Thr Ile Ser Lys	
100 105 110	
ucg ggc ggc gac uac gcc uac aug cug gag guc uac ggc ucg cug ccc	384
Ser Gly Gly Asp Tyr Ala Tyr Met Leu Glu Val Tyr Gly Ser Leu Pro	
115 120 125	
gcc uuc cuc aag cuc ugg auc gag cug cuc auc auc cgg ccu uca ucg	432
Ala Phe Leu Lys Leu Trp Ile Glu Leu Leu Ile Ile Arg Pro Ser Ser	
130 135 140	
cag uac auc gug gcc cug guc uuc gcc acc uac cug cuc aag ccg cuc	480
Gln Tyr Ile Val Ala Leu Val Phe Ala Thr Tyr Leu Leu Lys Pro Leu	
145 150 155 160	
uuc ccc acc ugc ccg gug ccc gag gag gca gcc aag cuc gug gcc ugc	528
Phe Pro Thr Cys Pro Val Pro Glu Glu Ala Ala Lys Leu Val Ala Cys	
165 170 175	
cuc ugc gug cug cug cuc acg gcc gug aac ugc uac agc gug aag gcc	576
Leu Cys Val Leu Leu Leu Thr Ala Val Asn Cys Tyr Ser Val Lys Ala	
180 185 190	
gcc acc cgg guc cag gau gcc uuu gcc gcc gcc aag cuc cug gcc cug	624
Ala Thr Arg Val Gln Xaa Ala Phe Ala Ala Ala Lys Leu Leu Ala Leu	
195 200 205	
gcc cug auc auc cug cug ggc uuc guc cag auc ggg aag ggu gau gug	672
Ala Leu Ile Ile Leu Leu Gly Phe Val Gln Ile Gly Lys Gly Xaa Val	
210 215 220	
ucc aaU cua gau ccc aac uuc uca uuu gaa ggc acc aaa cug gau gug	720
Ser Asn Leu Xaa Pro Asn Phe Ser Phe Glu Gly Thr Lys Leu Xaa Val	
225 230 235 240	
ggg aac auu gug cug gca uua uac agc ggc cuc uuu gcc uau gga gga	768
Gly Asn Ile Val Leu Ala Leu Tyr Ser Gly Leu Phe Ala Tyr Gly Gly	
245 250 255	
ugg aaU uac uug aaU uuc guc aca gag gaa aug auc aac ccc uac aga	816
Trp Asn Tyr Leu Asn Phe Val Thr Glu Glu Met Ile Asn Pro Tyr Arg	
260 265 270	
aac cug ccc cug gcc auc auc auc ucc cug ccc auc gug acg cug gug	864
Asn Leu Pro Leu Ala Ile Ile Ile Ser Leu Pro Ile Val Thr Leu Val	
275 280 285	
uac gug cug acc aac cug gcc uac uuc acc acc cug ucc acc gag cag	912
Tyr Val Leu Thr Asn Leu Ala Tyr Phe Thr Thr Leu Ser Thr Glu Gln	
290 295 300	
aug cug ucg ucc gag gcc gug gcc gug gac uuc ggg aac uau cac cug	960

Met	Leu	Ser	Ser	Glu	Ala	Val	Ala	Val	Asp	Phe	Gly	Asn	Tyr	His	Leu	
305					310					315					320	
ggc	guc	aug	ucc	ugg	auc	auc	ccc	guc	uuc	gug	ggc	cug	ucc	ugc	uuc	1008
Gly	Val	Met	Ser	Trp	Ile	Ile	Pro	Val	Phe	Val	Gly	Leu	Ser	Cys	Phe	
				325					330					335		
ggc	ucc	guc	aaU	ggg	ucc	cug	uuc	aca	ucc	ucc	agg	cuc	uuc	uuc	gug	1056
Gly	Ser	Val	Asn	Gly	Ser	Leu	Phe	Thr	Ser	Ser	Arg	Leu	Phe	Phe	Val	
			340					345					350			
ggg	ucc	cgg	gaa	ggc	cac	cug	ccc	ucc	auc	cuc	ucc	aug	auc	cac	cca	1104
Gly	Ser	Arg	Glu	Gly	His	Leu	Pro	Ser	Ile	Leu	Ser	Met	Ile	His	Pro	
		355					360					365				
cag	cuc	cuc	acc	ccc	gug	ccg	ucc	cuc	gug	uuc	acg	ugu	gug	aug	acg	1152
Gln	Leu	Leu	Thr	Pro	Val	Pro	Ser	Leu	Val	Phe	Thr	Cys	Val	Met	Thr	
	370					375					380					
cug	cuc	uac	gcc	uuc	ucc	aag	gac	auc	uuc	ucc	guc	auc	aac	uuc	uuc	1200
Leu	Leu	Tyr	Ala	Phe	Ser	Lys	Asp	Ile	Phe	Ser	Val	Ile	Asn	Phe	Phe	
385					390				395						400	
agc	uuc	uuc	aac	ugg	cuc	ugc	gug	gcc	cug	gcc	auc	auc	ggc	aug	auc	1248
Ser	Phe	Phe	Asn	Trp	Leu	Cys	Val	Ala	Leu	Ala	Ile	Ile	Gly	Met	Ile	
			405					410					415			
ugg	cug	cgc	cac	aga	aag	ccu	gag	cuu	gag	cgg	ccc	auc	aag	gug	aac	1296
Trp	Leu	Arg	His	Arg	Lys	Pro	Glu	Leu	Glu	Arg	Pro	Ile	Lys	Val	Asn	
			420				425						430			
cug	gcc	cug	ccu	gug	uuc	uuc	auc	cug	gcc	ugc	cuc	uuc	cug	auc	gcc	1344
Leu	Ala	Leu	Pro	Val	Phe	Phe	Ile	Leu	Ala	Cys	Leu	Phe	Leu	Ile	Ala	
	435						440					445				
guc	ucc	uuc	ugg	aag	aca	ccc	gug	gag	ugu	ggc	auc	ggc	uuc	acc	auc	1392
Val	Ser	Phe	Trp	Lys	Thr	Pro	Val	Glu	Cys	Gly	Ile	Gly	Phe	Thr	Ile	
	450					455				460						
auc	cuc	agc	ggg	cug	ccc	guc	uac	uuc	uuc	ggg	guc	ugg	ugg	aaa	aac	1440
Ile	Leu	Ser	Gly	Leu	Pro	Val	Tyr	Phe	Phe	Gly	Val	Trp	Trp	Lys	Asn	
465					470				475						480	
aag	ccc	aag	ugg	cuc	cuc	cag	ggc	auc	uuc	ucc	acg	acc	guc	cug	ugu	1488
Lys	Pro	Lys	Trp	Leu	Leu	Gln	Gly	Ile	Phe	Ser	Thr	Thr	Val	Leu	Cys	
			485				490						495			
cag	aag	cuc	aug	cag	gug	guc	ccc	cag	gag	aca	uag					1524
Gln	Lys	Leu	Met	Gln	Val	Val	Pro	Gln	Glu	Thr						
		500					505									

<210> 27

<211> 1590

<212> RNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1590)

<400> 27

aug agc cag gac acc gag gug gau aug aag gag gug gag cug aaU gag	48
Met Ser Gln Asp Thr Glu Val Xaa Met Lys Glu Val Glu Leu Asn Glu	
1 5 10 15	
uua gag ccc gag aag cag ccg aug aac gcg gcg ucu ggg gcg gcc aug	96
Leu Glu Pro Glu Lys Gln Pro Met Asn Ala Ala Ser Gly Ala Ala Met	
20 25 30	
ucc cug gcg gga gcc gag aag aaU ggu cug gug aag auc aag gug gcg	144
Ser Leu Ala Gly Ala Glu Lys Asn Gly Leu Val Lys Ile Lys Val Ala	
35 40 45	
gaa gac gag gcg gag gcg gca gcc gcg gcu aag uuc acg ggc cug ucc	192
Glu Asp Glu Ala Glu Ala Ala Ala Ala Lys Phe Thr Gly Leu Ser	
50 55 60	
aag gag gag cug cug aag gug gca ggc agc ccc ggc ugg gua cgc acc	240
Lys Glu Glu Leu Leu Lys Val Ala Gly Ser Pro Gly Trp Val Arg Thr	
65 70 75 80	
cgc ugg gca cug cug cug cuc uuc ugg cuc ggc ugg cuc ggc aug cuu	288
Arg Trp Ala Leu Leu Leu Leu Phe Trp Leu Gly Trp Leu Gly Met Leu	
85 90 95	
gcu ggu gcc gug guc aua auc gug cga gcg ccg cgu ugu cgc gag cua	336
Ala Gly Ala Val Val Ile Ile Val Arg Ala Pro Arg Cys Arg Glu Leu	
100 105 110	
ccg gcg cag aag ugg ugg cac acg ggc gcc cuc uac cgc auc ggc gac	384
Pro Ala Gln Lys Trp Trp His Thr Gly Ala Leu Tyr Arg Ile Gly Asp	
115 120 125	
cuu cag gcc uuc cag ggc cac ggc gcg ggc aac cug gcg ggu cug aag	432
Leu Gln Ala Phe Gln Gly His Gly Ala Gly Asn Leu Ala Gly Leu Lys	
130 135 140	
ggg cgu cuc gau uac cug agc ucu cug aag gug aag ggc cuu gug cug	480
Gly Arg Leu Xaa Tyr Leu Ser Ser Leu Lys Val Lys Gly Leu Val Leu	
145 150 155 160	
ggg cca auu cac aag aac cag aag gau gau guc gcu cag acu gac uug	528
Gly Pro Ile His Lys Asn Gln Lys Xaa Xaa Val Ala Gln Xaa Asp Leu	
165 170 175	
cug cag auc gac ccc aaU uuU ggc ucc aag gaa gau uuU gac agu cuc	576
Leu Gln Ile Asp Pro Asn Phe Gly Ser Lys Glu Xaa Phe Asp Ser Leu	
180 185 190	
uug caa ucg gcu aaa aaa aag agc auc cgu guc auu cug gac cuu acu	624
Leu Gln Ser Ala Lys Lys Lys Ser Ile Arg Val Ile Leu Asp Leu Xaa	
195 200 205	

ccc aac uac cgg ggu gag aac ucg ugg uuc ucc acu cag guu gac acu	672
Pro Asn Tyr Arg Gly Glu Asn Ser Trp Phe Ser Xaa Gln Val Asp Xaa	
210 215 220	
gug gcc acc aag gug aag gau gcu cug gag uuu ugg cug caa gcu ggc	720
Val Ala Thr Lys Val Lys Xaa Ala Leu Glu Phe Trp Leu Gln Ala Gly	
225 230 235 240	
gug gau ggg uuc cag guu cgg gac aua gag aau cug aag gau gca ucc	768
Val Xaa Gly Phe Gln Val Arg Asp Ile Glu Asn Leu Lys Xaa Ala Ser	
245 250 255	
uca uuc uug gcu gag ugg caa aa uuc acc aag ggc uuc agu gaa gac	816
Ser Phe Leu Ala Glu Trp Gln Asn Ile Thr Lys Gly Phe Ser Glu Asp	
260 265 270	
agg cuc uug auu gcg ggg acu aac ucc ucc gac cuu cag cag auc cug	864
Arg Leu Leu Ile Ala Gly Xaa Asn Ser Ser Asp Leu Gln Gln Ile Leu	
275 280 285	
agc cua cuc gaa ucc aac aaa gac uug cug uug acu agc uca uac cug	912
Ser Leu Leu Glu Ser Asn Lys Asp Leu Leu Leu Xaa Ser Ser Tyr Leu	
290 295 300	
ucu gau ucu ggu ucu acu ggg gag cau aca aaa ucc cua guc aca cag	960
Ser Xaa Ser Gly Ser Xaa Gly Glu His Thr Lys Ser Leu Val Thr Gln	
305 310 315 320	
uau uug aa ucc acu ggc aa cgc ugg ugc agc ugg agu uug ucu cag	1008
Tyr Leu Asn Ala Xaa Gly Asn Arg Trp Cys Ser Trp Ser Leu Ser Gln	
325 330 335	
gca agg cuc cug acu ucc uuc uug ccg gcu caa cuu cuc cga cuc uac	1056
Ala Arg Leu Leu Xaa Ser Phe Leu Pro Ala Gln Leu Leu Arg Leu Tyr	
340 345 350	
cag cug aug cuc uuc acc cug cca ggg acc ccu guu uuc agc uac ggg	1104
Gln Leu Met Leu Phe Thr Leu Pro Gly Thr Pro Val Phe Ser Tyr Gly	
355 360 365	
gau gag auu ggc cug gau gca gcu gcc cuu ccu gga cag ccu aug gag	1152
Xaa Glu Ile Gly Leu Xaa Ala Ala Ala Leu Pro Gly Gln Pro Met Glu	
370 375 380	
gcu cca guc aug cug ugg gau gag ucc agc uuc ccu gac auc cca ggg	1200
Ala Pro Val Met Leu Trp Xaa Glu Ser Ser Phe Pro Asp Ile Pro Gly	
385 390 395 400	
gcu gua agu gcc aac aug acu gug aag ggc cag agu gaa gac ccu ggc	1248
Ala Val Ser Ala Asn Met Xaa Val Lys Gly Gln Ser Glu Asp Pro Gly	
405 410 415	
ucc cuc cuu ucc uug uuc cgg cgg cug agu gac cag cgg agu aag gag	1296
Ser Leu Leu Ser Leu Phe Arg Arg Leu Ser Asp Gln Arg Ser Lys Glu	
420 425 430	

cgc ucc cua cug cau ggg gac uuc cac gcg uuc ucc gcu ggg ccu gga 1344
 Arg Ser Leu Leu His Gly Asp Phe His Ala Phe Ser Ala Gly Pro Gly
 435 440 445

cuc uuc ucc uau auc cgc cac ugg gac cag aaU gag cgu uuu cug gua 1392
 Leu Phe Ser Tyr Ile Arg His Trp Asp Gln Asn Glu Arg Phe Leu Val
 450 455 460

gug cuu aac uuu ggg gau gug ggc cuc ucg gcu gga cug cag gcc ucc 1440
 Val Leu Asn Phe Gly Xaa Val Gly Leu Ser Ala Gly Leu Gln Ala Ser
 465 470 475 480

gac cug ccu gcc agc gcc agc cuc cca gcc aag gcu gac cuc cug cuc 1488
 Asp Leu Pro Ala Ser Ala Ser Leu Pro Ala Lys Ala Asp Leu Leu Leu
 485 490 495

agc acc cag cca ggc cgu gag gag ggc ucc ccu cuu gag cug gaa cgc 1536
 Ser Thr Gln Pro Gly Arg Glu Glu Gly Ser Pro Leu Glu Leu Glu Arg
 500 505 510

cug aaa cug gag ccu cac gaa ggg cug cug cuc cgc uuc ccc uac gcg 1584
 Leu Lys Leu Glu Pro His Glu Gly Leu Leu Leu Arg Phe Pro Tyr Ala
 515 520 525

gcc uga 1590
 Ala
 530